PATENT COOPERATION TREATY

To:					PCT	
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHOR		
				(1	PCT Rule 43 <i>bis</i> .1)	
				Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)		
Applicant's or a	agent's file i	reference		FOR FURTHER ACTION		
see form PC				See paragraph 2 belo	W TON	
International ap PCT/HU200		1	national filing date (d 6.2004	day/month/year)	Priority date (day/month/year) 23.06.2003	
nternational Pa	atent Classi	fication (IPC) or both nat	tional classification	and IPC		
\61K31/135	, Аб1Р25 	0/28				
Applicant EGIS GY GY	YSZERG	Y B BT			·	
	. OZLNO					
. This on	inion con	tains indications rel	otion to the fell			
		itains indications rel	ating to the folic	wing items:		
⊠ Box i		Basis of the opinion				
⊠ Box		Priority				
		non-establishment of	opinion with regai	rd to novelty, inventive	step and industrial applicability	
_	No. V	Lack of unity of invent Reasoned statement u	under Rule 43 <i>bis</i> :	1(a)(i) with regard to n	ovelty, inventive step or industrial	
□ Pay i	_	-ppeasty, ortations i	and explanations	supporting such state	ment	
_		Certain documents cité				
		Certain defects in the i				
		Certain observations o	on the internationa	l application		
FURTHE	R ACTIO	N			-	
the application	cant choos	ses an Authority other au under Rule 66.1 <i>bisl</i>	than this one to b	Authority ("IPEA"). Ho	sually be considered to be a wever, this does not apply where nosen IPEA has notifed the onal Searching Authority	
months fr		ate of mailing of Form			EA, the applicant is invited to s, before the expiration of three 22 months from the priority date,	
For furthe	er options,	see Form PCT/ISA/22	20.			
For furthe	er details, :	see notes to Form PC	T/ISA/220.			
		<u> </u>	·		•	
ne and mailin	g address o	of the ISA:		Authorized Officer		
	ropean Pat				Sea free for a season of	
9 / D-8	80298 Muni			Borst, M	· (0)	
	A. TVO 80 3	399 - 4465		Telephone No. +49 89 23	100 0040	

Telephone No. +49 89 2399-8648

Form PCT/ISA/237 (Cover Sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

3.

International application No. PCT/HU2004/000062

Во	x No. II	Priority
1. 🖾	The fo	llowing document has not been furnished:
	\boxtimes	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
		translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
: • •	Conse neverti	quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.
2. 🗆	has be	pinion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international ate indicated above is considered to be the relevant date.
3. Add	ditional o	observations, if necessary:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/HU2004/000062

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	The	e questions whether the claimed vious), or to be industrially applic	ention appears to be novel, to involve an inventive step (to be non have not been examined in respect of:				
		the entire international applica	e international application,				
	⊠ bec	claims Nos. 16-22	os. 16-22				
	the said international application, or the said claims Nos. 16-22 (no examination as to industrial applicability only) relate to the following subject matter which does not require an international prelimin examination (specify):						
		see separate sheet					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
		no international search report has been established for the whole application or for said claims Nos					
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Al C of the Administrative Instructions in that:					
		the written form		has not been furnished			
				does not comply with the standard			
		the computer readable form		has not been furnished			
				does not comply with the standard			
		the tables related to the nucleo not comply with the technical re	tide a equire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.			
		See separate sheet for further	detai				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/HU2004/000062

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

4,7,8

No: Claims

1-3,5,6,9-22

Inventive step (IS)

Yes: Claims No:

Claims

1-22

Industrial applicability (IA)

Yes: Claims

1-15

No: Claims

2. Citations and explanations

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Subject-matter excluded from international preliminary examination (Rule 67.1(iv)-PCT)

Claims 16-22 are directed to a method for the treatment of the human or animal body by therapy and, thus, relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated under Section V with respect to industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

Clarity (Article 6 PCT)

Present claim 3 is not clear, because in contrast to the teaching of the application it is directed to the preparation of pharmaceutical compositions having chronical neurodegenerative effect. Therefore, the search and the examination will be based in this respect on the preparation of pharmaceutical compositions for the treatment of chronical neurodegenerative disorders (cf. page 5).

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- D1: WO 03/007926 A (EGYT GYOGYSZERVEGYESZETI GYAR; LEVAY GYOERGY (HU); GACSALYI ISTVAN (H) 30 January 2003 (2003-01-30)
- D2: WO 02/43726 A (ORION CORP; MAEKI IKOLA OUTI (FI)) 6 June 2002 (2002-06-06)
- D3: CAPONNETTO C ET AL: "Protective effect of cyproheptadine in a gerbil model of cerebral ischemia" ITALIAN JOURNAL OF NEUROLOGICAL SCIENCES, MASSON ITALIA EDITORI, MILAN, IT, vol. 12, 1991, pages 59-61, XP002979212 ISSN: 0392-0461
- D4: BERENIJI ET AL: "EGYT-3886" DRUGS OF THE FUTURE, BARCELONA, ES, vol. 15, no. 12, 1990, pages 1174-1175, XP000937796 ISSN: 0377-8282
- D5: GACSALYI I ET AL: "DIFFERENT ANTAGONISTIC ACTIVITY OF DERAMCICLANE (EGIS-3886)
 ON PERIPHERAL AND CENTRAL 5-HT2 RECEPTORS" PHARMACEUTICAL AND
 PHARMACOLOGICAL LETTERS, SPRINGER INTERNATIONAL, BERLIN, DE, vol. 2, no. 6, 1996,
 pages 82-85, XP002902366
- D6: ARMER R E: "INHIBITORS OF MAMMALIAN CENTRAL NERVOUS SYSTEM SELECTIVE AMINO ACIDTRANSPORTERS" CURRENT MEDICINAL CHEMISTRY, BENTHAM SCIENCE PUBLISHERS BV, BE, vol. 7, no. 2, 2000, pages 199-209, XP000937809 ISSN: 0929-8673

1. Novelty (Article 33(2) PCT)

Claim 2 on file is directed to the preparation of pharmaceutical compositions suitable for the treatment of certain conditions. Due to the term "suitable for" the therapeutic indications defined in claim 2 are not a technical feature per se and do not impart any limitations to the scope of the claim, as any composition comprising a compound of formula I prima facie is to be considered as suitable for the treatment of diseases defined in claim 2.

- 1.1. The subject-matter of present claims 1-3, 5, 6, 9-22 is not new in the light of D1. D1 (page 4) discloses deramciclane, derivatives thereof including N-desmethylderamciclane, and salts thereof including the fumarate salt for use in the treatment
- (i) of mental disability consequent on stroke
- (ii) of Alzheimer disease and dementia.

 Thus, the use of deramciclane for achieving a neuroprotective effect was anticipated by therapeutic indication (i) above, whilst the use for the treatment of chronic neurodegenerative disorders was anticipated by therapeutic indication (ii) above.
- 1.2. The subject-matter of present claims 1-3, 9, 16, 18, 20, 22 is not new in the light of D2.

D2 (page 2-3) discloses deramciclane and salts thereof including the fumarate salt for use in the treatment of Alzheimer disease and dementia. The same reasoning applies as under item 1.1. above.

2. Inventive step (Article 33(3) PCT)

The subject-matter of claims 1-22 of the present application does not involve an inventive step in the light of D3 and D4.

It has been shown with the application on file that deramciclane has antiischemic activity in a gerbil model of cerebral ischemia.

It was known from the closest prior art that several serotonin antagonists, in particular cyproheptadine, are effective in the same gerbil model.

The objective technical problem to be solved in the light of D3 was, therefore, to provide, apart from cyproheptadine, alternative therapeutic agents for the treatment of cerebral ischemia.

D4 disclosing that deramciclane has 5-HT₂ affinity comparable to that of cyproheptadine suggests the use of deramciclane for solving the above technical problem and, thus, to arrive at the invention according to the claims on file.

Conclusion

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/HU2004/000062

As long as the claims on file are not clearly delimited from the D1 and D2, for instance in terms of the therapeutic indication, and as long as it has not been shown why the combined teaching of D3 and D4 does not render obvious the invention according to the claims on file neither novelty nor inventive step can be acknowledged.

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
FADED TEXT OR DRAWING
BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
LINES OR MARKS ON ORIGINAL DOCUMENT
REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
Потнер.

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.